

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1	("5372047").PN.	US-PGPUB; USPAT	OR	OFF	2007/06/21 08:49
L2	2	((("6487507") or ("6456057") or ("2002064011")).PN.	US-PGPUB; USPAT	OR	OFF	2007/06/21 08:50
L3	3	((("6487507") or ("6456057") or ("2002064011")).PN.	US-PGPUB; USPAT	OR	OFF	2007/06/21 09:55
L4	4	"bus instrument" same ("two wire" "2-wire")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/21 10:06
L5	695	"instrument element"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/21 10:06
L6	8	5 and coriolis	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/21 10:17

**Family list****8 family members for: CN1849498**

Derived from 8 applications

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- 1 TWO-WIRE BUS INSTRUMENT**  
**Inventor:** MANSFIELD WILLIAM M **Applicant:** MICRO MOTION INC  
**EC:** G01F1/84; H02H9/00E **IPC:** G01F1/84; H02H9/00; G01F1/76 (+2)  
**Publication info:** AU2003277178 A1 - 2005-05-11
- 2 TWO-WIRE BUS INSTRUMENT**  
**Inventor:** MANSFIELD WILLIAM M **Applicant:** MICRO MOTION INC (US)  
**EC:** G01F1/84; H02H9/00E **IPC:** G01F1/84; H02H9/00; G01F1/76 (+2)  
**Publication info:** BRPI0318523 A - 2006-09-12
- 3 TWO-WIRE BUS INSTRUMENT**  
**Inventor:** MANSFIELD WILLIAM M (US) **Applicant:** MICRO MOTION INC (US)  
**EC:** G01F1/84; H02H9/00E **IPC:** G01F1/84; H02H9/00; G01F1/76 (+1)  
**Publication info:** CA2539202 A1 - 2005-05-06
- 4 Two-wire bus instrument**  
**Inventor:** MANSFIELD W M (US) **Applicant:** MICRO MOTION INC (US)  
**EC:** G01F1/84; H02H9/00E **IPC:** G01F1/84; H02H9/00; G01F1/76 (+1)  
**Publication info:** CN1849498 A - 2006-10-18
- 5 TWO-WIRE BUS INSTRUMENT**  
**Inventor:** MANSFIELD WILLIAM M (US) **Applicant:** MICRO MOTION INC (US)  
**EC:** G01F1/84; H02H9/00E **IPC:** G01F1/84; H02H9/00; G01F1/76 (+2)  
**Publication info:** EP1668324 A1 - 2006-06-14
- 6 TWO-WIRE BUS INSTRUMENT.**  
**Inventor:** MANSFIELD WILLIAM M (US) **Applicant:** MICRO MOTION INC (US)  
**EC:** G01F1/84; H02H9/00E **IPC:** G01F1/84; H02H9/00; G01F1/76 (+2)  
**Publication info:** MXPA06003429 A - 2006-06-27
- 7 Two-wire bus instrument**  
**Inventor:** MANSFIELD WILLIAM M (US) **Applicant:**  
**EC:** G01F1/84; H02H9/00E **IPC:** G01F1/00; G01F1/84; H02H9/00 (+3)  
**Publication info:** US2007038390 A1 - 2007-02-15
- 8 TWO-WIRE BUS INSTRUMENT**  
**Inventor:** MANSFIELD WILLIAM M (US) **Applicant:** MICRO MOTION INC (US); MANSFIELD WILLIAM M (US)  
**EC:** G01F1/84; H02H9/00E **IPC:** G01F1/84; H02H9/00; G01F1/76 (+2)  
**Publication info:** WO2005040735 A1 - 2005-05-06

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10570931\_CLSTITLES.txt

Titles of most frequently occurring  
classifications of patents returned  
from a search of 10570931 on Jun 21 ,  
2007

7 307/10.1 (3 OR, 4 XR)  
Class 307 ELECTRICAL  
TRANSMISSION OR INTERCONNECTION SYSTEMS  
307/9.1 .VEHICLE MOUNTED  
SYSTEMS  
307/10.1 ..Automobile

4 439/76.2 (1 OR, 3 XR)  
Class 439 ELECTRICAL  
CONNECTORS  
439/55 .PREFORMED PANEL  
CIRCUIT ARRANGEMENT, E.G., PCB, ICM, DIP,  
CHIP, WAFER, ETC.  
439/76.1 ..within distinct  
housing spaced from panel circuit  
arrangement  
439/76.2 ...Automotive  
junction box

4 439/34 (2 OR, 2 XR)  
Class 439 ELECTRICAL  
CONNECTORS  
439/34 .WITH VEHICLE  
STRUCTURE

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4 700/86 (2 OR, 2 XR)  
Class 700 DATA PROCESSING:  
GENERIC CONTROL SYSTEMS OR SPECIFIC  
APPLICATIONS

700/1 .GENERIC CONTROL  
SYSTEM, APPARATUS OR PROCESS  
700/86 ..Having  
preparation of program

4 700/83 (2 OR, 2 XR)  
Class 700 DATA PROCESSING:  
GENERIC CONTROL SYSTEMS OR SPECIFIC  
APPLICATIONS

700/1 .GENERIC CONTROL  
SYSTEM, APPARATUS OR PROCESS  
700/83 ..Having operator  
control interface (e.g., control/display  
console)

3 439/364 (2 OR, 1 XR)  
Class 439 ELECTRICAL  
CONNECTORS

439/296 .WITH COUPLING  
MOVEMENT-ACTUATING MEANS OR RETAINING  
MEANS IN ADDITION TO CONTACT OF COUPLING  
PART

439/345 ..Retaining means  
439/359 ...Retaining means  
comprising helically threaded member

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439/362 .....Parallel to  
connection

439/364 .....Passing  
centrally through coupling part

2 370/509 (0 OR, 2 XR)  
Class 370 MULTIPLEX  
COMMUNICATIONS

370/464 .COMMUNICATION  
TECHNIQUES FOR INFORMATION CARRIED IN  
PLURAL CHANNELS

370/498 ..Combining or  
distributing information via time channels  
370/503 ...Synchronizing  
370/509 ....Using  
synchronization information contained in a  
frame

2 307/9.1 (0 OR, 2 XR)  
Class 307 ELECTRICAL  
TRANSMISSION OR INTERCONNECTION SYSTEMS  
307/9.1 .VEHICLE MOUNTED  
SYSTEMS

2 710/105 (1 OR, 1 XR)  
Class 710 ELECTRICAL  
COMPUTERS AND DIGITAL DATA PROCESSING  
SYSTEMS: INPUT/OUTPUT  
710/100 .INTRASYSTEM  
CONNECTION (E.G., BUS AND BUS TRANSACTION

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PROCESSING)

710/105

..Protocol

2 709/208 (1 OR, 1 XR)

Class 709 ELECTRICAL

COMPUTERS AND DIGITAL PROCESSING SYSTEMS:  
MULTICOMPUTER DATA TRANSFERRING

709/208 .MASTER/SLAVE

COMPUTER CONTROLLING

2 710/110 (1 OR, 1 XR)

Class 710 ELECTRICAL

COMPUTERS AND DIGITAL DATA PROCESSING  
SYSTEMS: INPUT/OUTPUT

710/100 .INTRASYSTEM

CONNECTION (E.G., BUS AND BUS TRANSACTION  
PROCESSING)

710/107 ..Bus access

regulation

710/110 ...Bus

master/slave controlling

2 710/106 (0 OR, 2 XR)

Class 710 ELECTRICAL

COMPUTERS AND DIGITAL DATA PROCESSING  
SYSTEMS: INPUT/OUTPUT

710/100 .INTRASYSTEM

CONNECTION (E.G., BUS AND BUS TRANSACTION  
PROCESSING)

710/105 ..Protocol

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710/106 ...Using  
transmitter and receiver

2 714/25 (0 OR, 2 XR)  
Class 714 ERROR  
DETECTION/CORRECTION AND FAULT  
DETECTION/RECOVERY  
714/100 .DATA PROCESSING  
SYSTEM ERROR OR FAULT HANDLING  
714/1 ..Reliability and  
availability  
714/25 ...Fault locating  
(i.e., diagnosis or testing)

2 713/300 (2 OR, 0 XR)  
Class 713 ELECTRICAL  
COMPUTERS AND DIGITAL PROCESSING SYSTEMS:  
SUPPORT  
713/300 .COMPUTER POWER  
CONTROL

2 361/641 (0 OR, 2 XR)  
Class 361 ELECTRICITY:  
ELECTRICAL SYSTEMS AND DEVICES  
361/600 .HOUSING OR  
MOUNTING ASSEMBLIES WITH DIVERSE  
ELECTRICAL COMPONENTS  
361/601 ..For electrical  
power distribution systems and devices  
361/641 ...Electrical

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service distribution box

2 257/676 (1 OR, 1 XR)  
Class 257 ACTIVE SOLID-STATE  
DEVICES (E.G., TRANSISTORS, SOLID-STATE  
DIODES)  
257/666 .LEAD FRAME  
257/676 ..With structure  
for mounting semiconductor chip to lead  
frame (e.g., configuration of die bonding  
flag, absence of a die bonding flag,  
recess for LED)

2 257/669 (1 OR, 1 XR)  
Class 257 ACTIVE SOLID-STATE  
DEVICES (E.G., TRANSISTORS, SOLID-STATE  
DIODES)  
257/666 .LEAD FRAME  
257/669 ..With stress  
relief

2 257/E23.039 (0 OR, 2 XR)  
Class 257 ACTIVE SOLID-STATE  
DEVICES (E.G., TRANSISTORS, SOLID-STATE  
DIODES)  
257/E23.001 .PACKAGING,  
INTERCONNECTS, AND MARKINGS FOR  
SEMICONDUCTOR OR OTHER SOLID-STATE DEVICES  
(EPO)  
257/E23.01 ..Arrangements for



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conducting electric current to or from  
solid-state body in operation, e.g.,  
leads, terminal arrangements (EPO)  
257/E23.023 ...Consisting of  
soldered or bonded constructions (EPO)  
257/E23.031 ....Lead frames or  
other flat leads (EPO)  
257/E23.037 .....Characterized  
by die pad (EPO)  
257/E23.039  
.....Chip-on-leads or leads-on-chip  
techniques, i.e., inner lead fingers being  
used as die pad (EPO)

2 257/E23.043 (0 OR, 2 XR)  
Class 257 ACTIVE SOLID-STATE  
DEVICES (E.G., TRANSISTORS, SOLID-STATE  
DIODES)

257/E23.001 .PACKAGING,  
INTERCONNECTS, AND MARKINGS FOR  
SEMICONDUCTOR OR OTHER SOLID-STATE DEVICES  
(EPO)

257/E23.01 ..Arrangements for  
conducting electric current to or from  
solid-state body in operation, e.g.,  
leads, terminal arrangements (EPO)

257/E23.023 ...Consisting of  
soldered or bonded constructions (EPO)  
257/E23.031 ....Lead frames or  
other flat leads (EPO)

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257/E23.043 .....Geometry of  
lead frame (EPO)

2 174/72A (0 OR, 2 XR)  
Class 174 ELECTRICITY:  
CONDUCTORS AND INSULATORS  
174/68.1 .CONDUITS, CABLES  
OR CONDUCTORS  
174/70R ..Combined  
174/71R ...Branched  
174/72R ....Multi-duct  
conduit and/or plural branch  
174/72A .....Wire harness

2 296/70 (1 OR, 1 XR)  
Class 296 LAND VEHICLES:  
BODIES AND TOPS  
296/1.01 .BODIES  
296/70 ..Dashboards

2 361/823 (0 OR, 2 XR)  
Class 361 ELECTRICITY:  
ELECTRICAL SYSTEMS AND DEVICES  
361/600 .HOUSING OR  
MOUNTING ASSEMBLIES WITH DIVERSE  
ELECTRICAL COMPONENTS  
361/823 ..Terminal block

2 340/438 (2 OR, 0 XR)  
Class 340 COMMUNICATIONS:

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ELECTRICAL

340/425.5 .LAND VEHICLE

ALARMS OR INDICATORS

340/438 ..Internal alarm  
or indicator responsive to a condition of  
the vehicle

2 180/90 (0 OR, 2 XR)

Class 180 MOTOR VEHICLES

180/89.1 .BODIES

180/90 ..Dashboards

2 700/85 (0 OR, 2 XR)

Class 700 DATA PROCESSING:

GENERIC CONTROL SYSTEMS OR SPECIFIC  
APPLICATIONS

700/1 .GENERIC CONTROL

SYSTEM, APPARATUS OR PROCESS

700/83 ..Having operator

control interface (e.g., control/display  
console)

700/85 ...Positional

(e.g., joystick)

2 700/84 (0 OR, 2 XR)

Class 700 DATA PROCESSING:

GENERIC CONTROL SYSTEMS OR SPECIFIC  
APPLICATIONS

700/1 .GENERIC CONTROL

SYSTEM, APPARATUS OR PROCESS

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700/83 ..Having operator  
control interface (e.g., control/display  
console)  
700/84 ...Keyboard